

Brunzell

Alex V.

Boston
STAdium 2 2263

Worcester
PLessant 2-0746

Webster-Southbridge-Whitnaville
Grafton VErnon 9-2404

Providence
GAster 1-4454

Woonsocket
5782

Voutour's Express, Inc.

366 Providence Road

Farnumville, Massachusetts

Telephone Grafton VErnon 9-2404

July 3, 1959

ADMINISTRATIVE FILE

Brunzell, Alex V.

X
X

James Hoffa

Washington D. C.

Dear Sir:

I am very happy to contribute to the efforts of Mr. Brunzell President of Insuro Chemical Company, and am in agreement that his plan for expansion and growth can easily be put in to operation.

Having known Mr. Brunzell for so long a time and after considering his plan we feel that it is a worthy cause and hope that you consider it favorably. He employs a good relationship for his men and the union local 170 and he himself is a member of organized labor union and has been for some time. Our relationship with him and his company have been of the best. His plan will mean more work for us therefore putting more union men to work.

Assistance is all that I ask for Mr. Brunzell and I think he should be helped.

Respectfully yours

Ernest E. Daire

VOUTOUR'S EXPRESS

Ray Brungelf
Date Called *8/4/59* Time *1:10 PM*
WHILE YOU WERE OUT
He's at *Roger Smith Hotel*
M *198-2740*
of *Ext 612*
Phone *Ext 612*

<input checked="" type="checkbox"/> TELEPHONED	<input checked="" type="checkbox"/> PLEASE CALL
<input checked="" type="checkbox"/> CALLED TO SEE YOU	<input checked="" type="checkbox"/> WILL CALL AGAIN
<input checked="" type="checkbox"/> WANTS TO SEE YOU	<input checked="" type="checkbox"/> URGENT

Message re: *6/29 6/25*
to Hoffa
(General Letter)

Chapman
Carpenter
31 years

Operator *B*

Efficiency Line No 3735

ADMINISTRATIVE FILE

Brunzell, Alex V.

June 29, 1959

Mr. Alex V. Brunzell, Pres.
Insuro Chemical Co., Inc.
Box No. 249
West Upton, Massachusetts

Dear Mr. Brunzell:

Your communication of June 25th has been received in this office and will be brought to the attention of President Hoffe at the earliest opportunity.

Very truly yours,

H. J. Gibbons,
Executive Assistant to the
General President

HJG/yk

INSURO
LIQUID CHEMICAL
CEMENT
INTENSIFIER
WATERPROOF - HARDENER

INSURO CHEMICAL CO., INC.
MANUFACTURERS
MAIN OFFICE AND FACTORY
BOX NO. 249, WEST UPTON, MASSACHUSETTS
WRITTEN ORDERS ONLY

LABORATORY TESTED
COLORED CEMENT PAINTS
BONDING MATERIALS
ANTI-FREEZE EMULSIONS

June 25, 1959

Mr. James Hoffe President
Teamsters Union
Washington, D.C.

Dear Mr Hoffe:

As a member of organized labor, and having (30) thirty years of experience in the construction industry, and presently owner and President of this small Company, I would have you consider enclosed letters to show that a harmonious relationship exists from people who express themselves in such a way that they be self explanatory. Being more than interested in your fine work that you are doing, and having such loyal friends to support you, and also that you do believe in the concepts of free enterprise your case and my own have much in common.

If at anytime that you had a free moment, or you thought that we could help each other break up the tactics that are employed by big business interests, which has now got to the point that in my own case leaves me with only one avenue, and that is to ask labor organizations to help break up the monopolistic and professional tactics, which in the end could only lead to not only destruction of ones business, but would take away the rights that each and everyone of us has, which I feel is the right to better oneself, and to be the person that me or the Lord God wants him to be, and to this end I have dedicated my efforts, and I would like the opportunity to meet with you in person, and show to you quite clearly, that your interest in these matters are just as important to you as they are to myself.

You will note that my products play a most important part in economics, in such a way that if the truth was brought out into the open, it would stagger the President of the Steel Workers Union, to the extent that instead of raising the prices of steel and cement, reduce costs in give the benefits of that reduction to labor which have more right than do stock holders.

I would be willing to appear in Washington or any place that you say would be the place and time, and say I hope that this be soon.

In the event that we might not be able to meet, may I wish you continued success in your great leadership, with kindness and best regards.

A.V.B/c
enc

Insuro Chemical Co., Inc.
Alex V. Brunzell
Alex V. Brunzell/Pres.

BE SURE WITH "INSURO"

OFFICE AND FACTORY

WEST UPTON, MASS.

RESIDENCE
80 CHAPEL STREET
HOLDEN, MASS.
TEL. VALLEY 9-1501

INSURO CHEMICAL CO., INC.

PRESIDENT
ALEX V. BRUNZELL
CONSULTING CONCRETE ENGINEER

Comments: —

Due to tactics now employed it has now come
to the point of having to drive my own truck
and has put my business in such a state that my
plans for putting a fleet on the road has been
stymied by big business interests, who have
ways to comb one out of thier hair.
I need your support. (10/10/51)

Allen V. Brumzell

Pres.

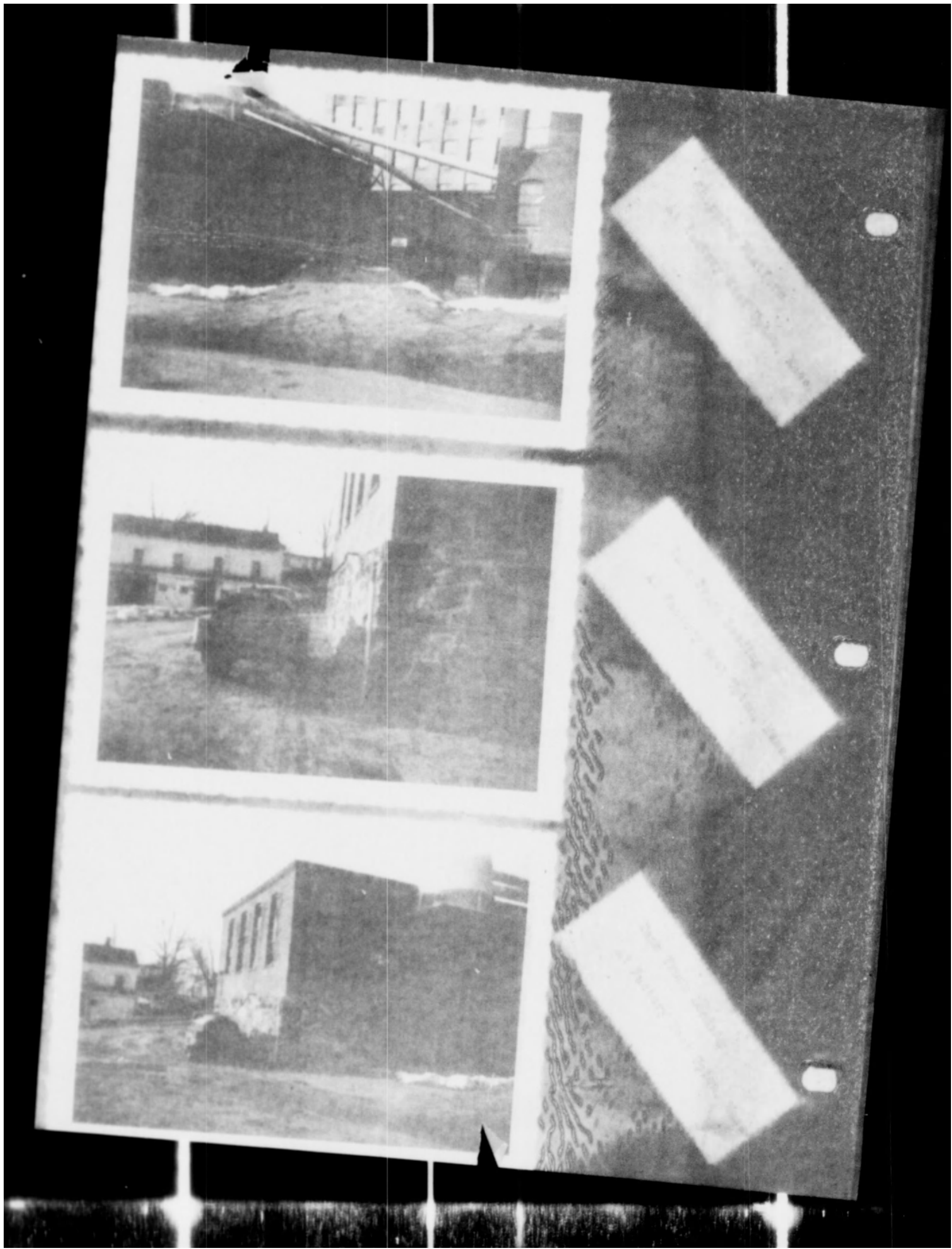
Inamo Chemical Co Inc.

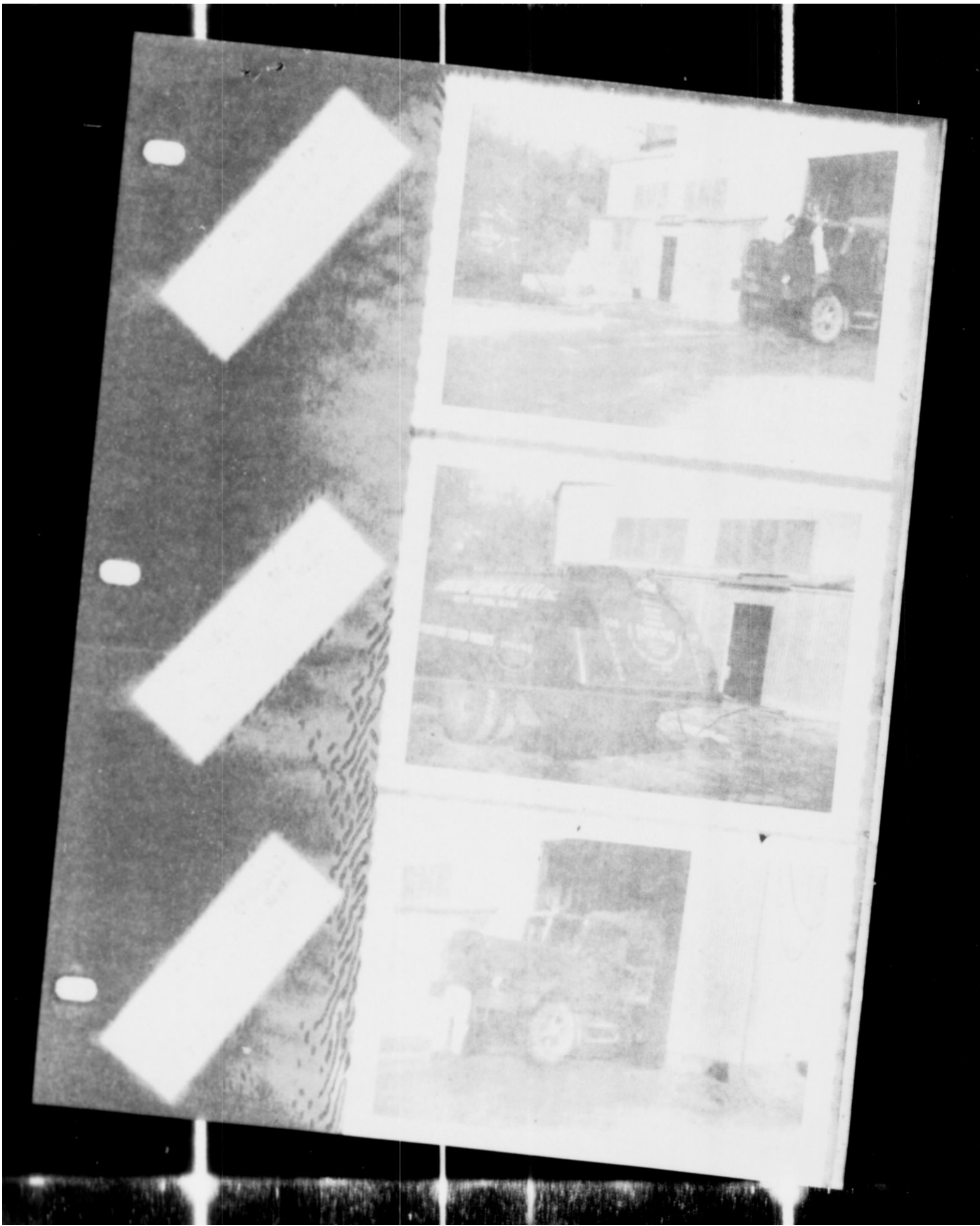
Box 249

Wart Yette

Mass.

THINGS TO DO TODAY





Copy
Mr. Hoffa



The Commonwealth of Massachusetts
Department of Public Safety
BOARD OF STANDARDS
1015 Commonwealth Avenue
Boston 15, Mass.
May 16, 1949

Ingers Chemical Co., Inc.
Box 249
West Upton, Mass.

Gentlemen:

The Board of Standards is considering writing a standard for concrete admixtures and we would like your assistance in supplying this standard.

Any information you can send us regarding the setting up of these specification standards would be greatly appreciated.

Very truly yours,

Frank R. Westall, Jr.
Chairman

FRW:LL

IT DIDN'T TAKE THEM LONG TO KNOCK ME
OUT OF THIS PICTURE! WHO? = BIG BUSINESS = U.S. STEEL

Copy
Mr. Hoffa

Original Letter
Dated June 23, 1957
J.M.B.

- 2 -

I was, of course, deeply impressed with the expression of faith which you so eloquently displayed, both in your conversation and in your correspondence. While the above description of the position which we must hold to might be considered by you as not responsive to your campaign to push your honest convictions to the hilt, I am sure that your strong faith will point out to you that there are other avenues of approach, or other reasons for this development.

You have my sincere wish that the long-range plan for your project will be truly successful and I am sure that, if your sincerity and initiative are any indication, you will obtain in the end exactly what you have set out to do.

Sincerely,

Thomas M. Doyle
Assistant to Mr. Grace

cc: Brother Anthony

P.S. I am returning herewith the material which you furnished for my personal.

Copy
Mr. Hoffa

THE HUB TESTING LABORATORY



Engineers - Chemists - Inspectors

11 MASSACHUSETT STREET
AT BRAVER BROWN STATION
WALTHAM, MASS.

FRED T. BOYLE
FRANK A. GILMAN
NATHAN WISEBLOOD

June 22, 1959

TWinkbrook 3.8330
CABLE - HUB

Grace National Bank
87 Hanover Square
New York, New York

Attention: Mr. Thomas Doyle

Dear Sir:

Re: "Insure"

We are writing at the request of Mr. Alex V. Brunsell, President of the Insure Chemical Company, Inc., of West Orono, Massachusetts.

Mr. Brunsell advised us that he has furnished you or your associates with pertinent data concerning his product known as "Insure". We are further advised by Mr. Brunsell that you are in possession of our laboratory test reports and results concerning "Insure". These reports, we believe, are self-explanatory. In addition to values in the product, "Insure" as shown by our laboratory research, we feel that such values could be emphasized or added to in actual construction work in the field.

We are happy to lend assistance to Mr. Brunsell in his efforts with "Insure". We feel that he is sincere and dedicated in his mission to promote his product in the public interest.

Respectfully yours,
HUB TESTING LABORATORY

Frank A. Gilman
Chief Engineer

FAG/feb

Comments:
Again: Silence
WHP
GUB

Copy
The Hoff

LOCAL UNION NO 660

United Brotherhood of Carpenters
and Joiners of America



FRAMINGHAM, MASS.

4 Olby Place
Saxonville, Mass.
May 1, 1969

Senator John F. Kennedy
Senate Office Building
Washington, D. C.

Dear Sir:

This organization has instructed me to communicate with you on a matter which we feel warrants your consideration.

Mr. Alex V. Brunzell of the Inagro Chemical Co. Inc. spoke to this body at an open meeting on May 4, 1969.

I will not go into detail, as it is our understanding that the facts and figures have been brought to your notice a short time ago.

After reviewing the data submitted by Mr. Brunzell we feel that his case warrants your attention.

We therefore earnestly request that you review this information again.

Very truly yours,

Francis G. Gray
Recording Secretary

Copy
Mr. Huffer
C
K
New
QV12

LOCAL UNION NO 107

United Brotherhood of Carpenters and Joiners of America



184 FRONT STREET

PLEASANT 5-3034

WORCESTER, MASS.

February 13 1958

Honorable John F. Kennedy,
U. S. Senate,
Washington, D.C.

Dear Sir:

A meeting was held on Thursday of last week, February 5, 1958, for the purposes of reviewing data submitted to the District Council of Worcester, Mass., and the Council heartily endorses the purpose of Mr. Alex Brunell of the Insuro Chemical Company, Inc., Box 249, East Upton, Mass., as being worthy of your early consideration in the inclusion of specifications drawn up by your different government and state departments.

We have witnessed the performance of the product INSURIC and think it worthy of such consideration. We are also aware that this will afford INSURIC an opportunity for expansion and growth, and we unanimously agree that INSURIC and Mr. Brunell are worthy of this consideration.

Respectfully submitted,

ANDRE SHUSTA,
Business Agent for Carpenters

ASir

WE FEEL GOOD
ABOUT THIS IT SHOWS
ITS KNOWN QUANTITIES IN
WRITING REFS BRIDGE
TO BRIDGE

THE CITY OF NEW YORK
DEPARTMENT OF PUBLIC WORKS

Date: January 6, 1959

ADDENDUM NO. 1 SPECIFICATIONS AND CONTRACT DRAWINGS

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

RECONSTRUCTION OF SWING SPAN AND APPROACHES OF THE GRAND STREET
BRIDGE OVER KENTUCKY CREEK BETWEEN THE BOROUGH OF BROOKLYN AND QUEENS.

This Addendum is issued for the purpose of amending the requirements of the Contract Documents, and is hereby made a part of said Contract Documents to the same extent as though it were originally included therein.

SPECIFICATIONS

Page 80 SP-6, para. a.- delete the last 3 lines in this paragraph reading "The Contractor is advised that accurate field measurements will have to be made by him to insure the satisfactory fabrication, erection and operation of the rolling-lift bridge leaves."

Page 85 SP-7, para. b.- For the purpose of clarifying the extent of removal of pavements on approach, it is hereby stated that it is the intent that the Contractor shall completely remove all trolley rails, ties and appurtenances thereto; granite blocks, concrete sub-base, asphalt paving and all other like materials whether or not these materials are presently located below the new subgrade levels.

Pages 86 and 87
SP-6, BRIDGING MATERIALS, at bottom of page 86 and
SP-7, BRIDGING PAVEMENTS, at top of page 87.
delete SP-6 and SP-7 in their entirety. It is the intent that new roadway and sidewalk pavements be adjusted within the contract limits to merge evenly with existing pavements at each "end of contract," (see Contract Drawings Sheets No. 9 and 10)

Page 100, para. b at the end of this paragraph add the following text: "Concrete for the filled open grating shall have an integral waterproofing compound added to the mix. The waterproofing compound shall be equal to "Insuro" as manufactured by Insuro Chemical Co., Inc., West Upton, Mass. or "Anti-Hydro" as manufactured by Anti-Hydro Waterproofing Co., Newark, N.J. The compound shall be incorporated in the concrete mix in accordance with the manufacturer's recommendations."

Page 101 SP-1, para. b - For the purpose of clarifying the extent of painting existing steel, it is hereby stated that it is the intent that the specified two complete field coats be given to all existing steel remaining in the new construction. This includes all truss members and cross-bracing.

Page 120, para. 16: Size of leader shall be 2"x3".

Page 123, SP-3 GRAVITY DRAINAGE - Delete this Section in its entirety. Granite roadway borders are not required in this Contract.

Page 123, SP-4, para. a.- In the first line, delete the figure "4". It is the intent that only the two swing gates on the Brooklyn Approach be removed and reset. (See Note 3 on Contract Drawing Sheet No. 9).

Copy
Mr. Hoffer

COPY

POWER AUTHORITY OF THE STATE OF NEW YORK
THE COLISEUM TOWER-18 COLUMBUS CIRCLE
New York 19, N.Y.

May 19, 1958

Honorable John F. Kennedy
1702 Federal Building
Boston, Massachusetts

Dear Senator:

Governor Harriman has forwarded a copy of your letter to him of April 24, 1958 relative to one of your constituents, Mr. Alex V. Brunell, of the Inland Chemical Company, West Upton, Massachusetts, in connection with the use of his product at Niagara.

Mr. Brunell manufactures a concrete additive. He has talked to the Power Authority engineers, consultants and contractors.

There are literally hundreds of concrete additives on the market and it is not the policy of the Authority to specify a specific brand of material of this type.

Mr. Brunell has had his day in court insofar as the Power Authority is concerned.

Sincerely,

William S. Chapin,
General Manager

THIS REASON I COULD EXPLAIN TO YOU IN
A WAY THAT BIG BUSINESS INTERESTS HAVE IN BE-
LIEF TO CONTROLLED AND WELL GUARDED TACTICS

A.V.B.

Copy to Mr. [unclear]

The Catholic University of America
Washington 17, D. C.

DEPARTMENT OF CIVIL ENGINEERING

May 27, 1959

Mr. Alex V. Brunsell, President
Ingersoll Chemical Company, Inc.
Box No. 249
West Nyack, Massachusetts

Dear Mr. Brunsell:

Thank you very much for the beautiful statue of Notre Dame de
Sacre-Coeur. I presume that your generous gift to the University is
meant to become a part of the School of Engineering and Architecture.
You perhaps may know that our School expects to occupy its new building
in late 1960 when all the engineering departments will be together in
one place. I shall confer with the Administration to determine a
location for the statue in the meantime.

I wish to thank you, Mr. Brunsell, in the name of the University
for the inspiring gift and to assure you of our appreciation of your
kindness. I pray that you will always have the protection of Notre Dame
de Sacre-Coeur and Her help in all your efforts.

Sincerely yours,

Professor Frank A. Eberstein
Head
Department of Civil Engineering

FB:mr

cc: Mr. Rev. Joseph B. Halliher, Vice Rector
Dean Donald E. Marlowe

WE DO CONTRIBUTE TO FINE INSTITUTIONS, BUT WILL NEVER
CONTRIBUTE TO GREED OR CORRUPTION, AS I KNOW OF.
YOU AND I COULD GO A LONG WAY TO BETTER THIS VENTURE
GIVE IT SERIOUS THOUGHTS. DOWN IT AND CONTROL IT.
Q.V.B.

THE HUB TESTING LABORATORY



Engineers - Chemists - Inspectors
71 MASSACHUSETT STREET
AT HEAVY RAIL STATION
WALTHAM, MASS

FRED T. BOYLE
FRANK A. OELMAN
NATHAN WHEELOD

April 1, 1959

TW 3-8330
CABLE - HUB

Ingers Chemical Company, Inc.
Box 125
West Upton, Massachusetts

Attention: Mr. Alex V. Russell
President

Dear Sir:

Enclosed are the findings and results of our research to determine the comparative results of Ingers and Darax in concrete. The early results obtained show the need for not only continued study and laboratory testing, but also the need for the revision of present day specifications on cement concrete.

Very few significant changes have been made in specifications during the past fifteen to twenty years, not only in concrete but also in many other materials relating to construction. It is our humble opinion that material specifications of any type should be abreast of the times. The standardization and simplification of all specifications in a master document, covering all construction materials, should in our considered opinion, produce large savings for the users of the various materials of construction.

Attached herewith, please find our report covering various comparative tests using the commercial compounds known as "Ingers" and "Darax" as accelerating agents in the manufacture of standard Portland Cement Concrete.

The intent of this study is to show the benefits derived from the use of these two agents when used in designated and correct quantities, using properly specified procedures and under atmospheric and other conditions conducive to the best results in the manufacture of Portland Cement Concrete. U.S. STEEL CO.

We trust that the statistics and information contained in this study will be of benefit to those who are interested in the forward look in the handling and use of materials of construction in general, and Portland Cement Concrete in particular.

Respectfully
HUB TESTING LABORATORY

FAO/rob

FRANK A. OELMAN
Chief Engineer

SPECIFICATIONS

for

CONCRETE MIX--REGULAR AND HI-EARLY

SCOPE

Contractor is to Furnish and Deliver Concrete Mix as required by the City of Worcester, Massachusetts.

GENERAL

Concrete Mix is to conform to the following specifications:

(1) REGULAR with or without Air Entrain

Cement	Sand	Aggregate	Estimated Amount
1	2	4	100 Cubic Yards
1	2	3(w/ Lamp Black	250 Cubic Yards
1	2	3(w/Lamp Black & Anti Freeze)	50 Cubic Yards
1	2	3	50 Cubic Yards
1	2	3	50 Cubic Yards
1	2	3	50 Cubic Yards

(2) HI-EARLY - with or without Air Entrain

1	2		50 Cubic Yards
1	2		50 Cubic Yards
1	2	4	50 Cubic Yards
1	2	6	50 Cubic Yards
1	2	7	25 Cubic Yards
1	2	3(w/Lamp Black	50 Cubic Yards
1	2	3(w/Lamp Black & Anti-Freeze)	50 Cubic Yards
1	2	4	50 Cubic Yards
1	2	3(w/Anti Freeze)	50 Cubic Yards

AGGREGATE to be no larger than 3/4"

LAMP BLACK 1/4 lb. per 98 lb. bag, (when requested for sidewalks)

ANTI-FREEZE "Inseuro" or equal-manufactured by Inseuro Chemical Co. Inc. Box 249, W. Upton, Mass
One (1) Quart to a 98 lb bag when requested.

Concrete Mix shall meet the requirements of the American Society for Testing Materials, Specifications: A.3.T.M. C-94-44 Ready-Mix Concrete.

REJECTION

The City reserves the right to reject any and all bids, wholly or in part, and to make awards in a manner deemed in the best interests of the City.

**Laboratory
Tested**

High Early Strength

Reduces Curing Time

Economical to Use

A-F INSURO is a liquid chemical formulation of special composition for use in cement-concrete and mortar mixtures. It meets standard specifications for concrete accelerating admixtures and is equal to calcium chloride for accelerating purposes.

1. Qr	Insuro equals the effect of at least 1	0%	calcium chloride
1. Qr		2	
2. Qrs		4	

Add Insuro, at above rates, with mixing water at a time not exceeding 90 minutes before deposit

Caution: As manufacturers of A-F Insure, we do not recommend that entire dependence be placed on our product below a temperature of 32° F. • Due to the fact that we have no control over conditions under which others may use our product, we cannot be held responsible for results obtained.

MANUFACTURED BY
INSURO CHEMICAL CO., INC.
MAIN OFFICE & FACTORY: BOX 249 WEST UPTON, MASS. U.S.A.

INSURO CHEMICAL CO., INC.

MAIN OFFICE & FACTORY: BOX 249 WEST UPTON, MASS. U.S.A.

FOR
Water-Proofing
Quick Setting
Bonding

**HIGH EARLY
STRENGTH**

Durable Concrete
Less Water
Better Workability

To be used only with Portland
Cement Integral-in-Gauging Water.

"INSURO" undiluted mixed with neat Portland Cement sets in two to three minutes — If mixed in the hand is used successfully for plugging leaks in free running water.

"INSURO" used in Concrete INSURES a hard dense waterproof mass — On floors when smooth steel troweled, INSURES a hard surface — dust proof and oil and acid resisting.

**TABLE FOR RECOMMENDED RATIOS PER BAG OF CEMENT
GAUGING WATER AND AGGREGATE AT 70° FAHR.**

"INSURO"	Water	Approximate Hardening Time	Anti-Freeze
1 QUART	17 QUARTS	12 HOURS	28°
1½ "	16½ "	8 "	22°
2 "	16 "	4 "	16°
3½ "	14½ "	2 "	
9 "	9 "	½ "	

**SIX-WAY
LIQUID
CHEMICAL
INSURO**

TRADE MARK REG. U. S. & CANADA

**CEMENT
INTENSIFIER
BONDER**

EMULSION

ANTI-FREEZE

FOR
Hardening, Dust-Proofing
and Intensifying All
Portland Cement Mixtures

**LABORATORY
TESTED**

Water-Proof
Cement Mortar
Resists Oil & Acids
Better Workability

Water-Proof Insuro Cement Mortar

Use clean sharp screened mortar sand washed free from shale, alkalis or other deleterious matter. Mix with 1 part of Portland Cement to 2 parts sand dry.

GAUGING WATER—Mix 1 quart of Insuro to 17 quarts of water in a clean container using this ratio in the required volume of gauging water for your requirements. Use this mixture as needed to bring the cement sand mixture to a buttery workable mass, ordinarily, $\frac{2}{3}$ gallons of the solution per bag of cement being sufficient. However, this proportion may vary up or down depending on the moisture condition of the sand. Care must be taken not to get the mass too wet, as Insuro tends to fluff to a buttery workable mass, and excess water must be avoided. No lime need be added, thus avoiding efflorescence. Mass to be held in quantities for use within an hour after mixing, and made up as required. Insuro mortar can be tempered only with the above 1 to 17 gauging water and only up to the time of initial set.

POINTING—Cement mortar can be struck and pointed as the work progresses, eliminating raking out joints for pointing.

STIR THOROUGHLY BEFORE USING

MANUFACTURED BY

INSURO CHEMICAL CO., INC.

MAIN OFFICE & FACTORY: BOX 249 WEST UPTON, MASS. U.S.A.

advantages of Insuro

INSURO, a multi-purpose compound has the following effects on concrete.

1. greater dampness and water-resisting quality

It reduces porosity of the concrete by reducing the water ratio. It fills the pores with insoluble chemicals which nullify the effect of capillary action and prevents both seepage and penetration of water even against a hydrostatic head of water.

2. quick setting—high early strength

It accelerates the set of concrete or concrete mortar and gives it high early strength. A standard mix of 1 quart of INSURO per bag of cement will allow foundations, piers and other bulk concrete to be poured one day and the forms removed the following morning. For repair and patch work where it is desirable to have even quicker setting, an increase in the amount of INSURO will reduce the setting time to a matter of a few hours.

3. hot caulking compound

A mixture of fresh Portland cement and undiluted INSURO will harden to the consistency of stone in a few minutes. This property is especially valuable when repairs of leaking walls must be made against free running water. Such instances occur in tunnels, dams and building foundations where it is neither possible nor economical to relieve the water pressure.

4. increases workability and plasticity

INSURO produces a smooth fatty mix, possessing a high degree of workability with a lower water-cement ratio. This makes for easier chuting and troweling with a consequent labor saving. The cost of INSURO is offset by the saving in labor cost alone. The workability provided by INSURO allows cement mortar to be mixed without lime.

5. bonding

Perfect bonding is an important factor in the success of INSURO. It produces a strong water-resistant bond in any condition where a new pour is added to concrete that has already set.

6. cold-weather protection

INSURO is a safe anti-freeze for it lowers the freezing point of the mixing liquid... provides heat generation during the hydration of the mix, thus giving warmth to the concrete... through acceleration of the set it reduces the time during which protection is required in extremely cold weather.

7. hardening and dustproofing

The trowel finished surface of INSURO treated concrete presents a hard, glossy surface that not only resists abrasion and erosion but is highly resistant to oils and acids.

8. cuts cost

Due to its properties, advantages and application, INSURO cuts costs by:

- ease of handling concrete due to its plasticity.
- quick-setting which allows earlier removal of forms.
- earlier use of concrete.
- When used properly will produce a finished product of quality which is far superior to untreated concrete.
- The additional cost of INSURO is offset by the saving in labor cost alone.

where it is used

1. concrete walls and foundations.

INSURO prevents seepage and moisture penetration. Allows quicker removal of form, gives high early strength and lower labor costs of concrete.

2. tunnels, dams, bridges, new work or repairs.

INSURO concrete is especially valuable for concrete bridges and tunnels or for bonding repair to old concrete.

3. concrete sea walls and retaining walls.

INSURO materially lengthens the life of concrete sea and retaining walls by making them water-resistant and protected against shelling, spalling and crevassing from the cycle of saturation, frost and thaw.

4. concrete swimming pools, catch basins, settling tanks.

Longer life is given to concrete swimming pools and catch basins for INSURO insures a water-resistant concrete which also tends to resist spalling due to freezing and thawing and action of acids in sewerage disposal plants.

5. concrete floors.

Are smoother, dust-proof, harder and will withstand greater wear and loads. Have greater resistance to acids and the penetration of oil and grease.

6. concrete driveways of filling stations and floors of garages.

Easier to keep clean because when INSURO is used, the concrete is more resistant to oil and grease.

7. reinforced concrete roadway and walks.

INSURO is used to great advantage for quick-setting and to give high early strength to concrete. New roadways and walks can be subjected to light or heavy traffic in much shorter time when INSURO is used.

8. repairing concrete.

INSURO is used most effectively for repairing cracks and holes in concrete floors, platforms, roadways, etc. The repaired sections are ready for heavy traffic in a few hours. It is also of great value in stopping leaks and repairing cracks in all types of masonry walls, whether old or new.

9. for use in masonry mortar.

Produces water-resistant joint. It reduces the porosity and contraction of the mixture, thereby making a denser mortar, creating a strong water-resistant bond between the mortar and brick and also prevents efflorescence. The anti-freeze protection greatly facilitates the laying of brick in cold weather. Cement mortar can be struck and pointed as the work progresses, eliminating raking out joints for pointing.

Insuro



INSURO concrete jetties after six years' exposure. Constructed for U. S. Coast Guard, Watch Hill, Rhode Island.



INSURO used in 30,000 sq. ft. reinforced concrete floor area. Sydney Blumenthal Worsted Mill, Valley Falls, Rhode Island.

how it is mixed

Mix 1 quart of INSURO to 17 quarts of water in a clean container using this ratio in the required volume of gauging water required. Use this solution as needed to bring the cement sand mixture to a buttery workable mass, ordinarily $\frac{1}{2}$ gallons of the solution per bag of cement being sufficient. However, this proportion may vary up or down depending on the moisture condition of the sand. Care must be taken not to get the mass too wet, as INSURO tends to fluff to a buttery workable mass, and excess water must be avoided. A bag of cement will combine with, at the very most, not more than $2\frac{1}{2}$ to 3 gallons of water with the result that the difference between this amount and the amount of water used in the mix remains in the concrete as free water.

Upon drying out, this free water leaves voids in the concrete. If too much mixing water has been used, the number of these voids will be excessive and the resulting concrete will be subject to leakage and the disintegrating action of frost. No lime should be added, thus avoiding efflorescence. Mass to be held in quantities for use within an hour after mixing, and made up as required. INSURO mortar can be tempered only with the above 1 to 17 gauging water and only up to the time of the initial set. To facilitate the setting of concrete in cold weather, the material, especially the water, should be heated before they are mixed so that the concrete is placed in forms at a temperature of around 80°F. If the aggregates have been stored out of doors during freezing weather they must be heated to insure against the incorporation of frozen materials in the mix. To further reduce the dissipation of heat from the concrete, cover with hay or like material. This procedure should be followed only where temperature falls below 16°F. since the manufacturers do not recommend that entire dependence be placed on INSURO under these conditions.

compression tests

Compression tests made by Skinner & Sherman, Inc., Boston, Mass.
Concrete:—Mix 1:2.4:3.6
Treated:—INSURO added to mixing water in proportions of 1 part INSURO to 17 parts water—total gauging liquid at the rate of $4\frac{1}{2}$ gals. per bag.
Curing:—Moist room. 70°F., 100% Relative Humidity.
Average Compressive Strength
lbs. per sq. in.
[Average of three cylinders]
Age
2 days 1592
7 days 2901
28 days 4066
6 months [average of two cylinders] 5467

construction test

Concrete Mix:—1-2-3	Cyl.		Beam	
24 Hours	1545		452	
48 Hours	2570		579	
72 Hours	3270		684	
7 Days	4110		767	
28 Days	5220		855	
6 Months	7550		1062	

As a result of these compression tests and demonstrations, INSURO has been used by Highway and Public Works Departments in many cities and towns.

comparative data

INSURO Required Per bag of Cement	Water	Water-Cement Ratio	* Approx. Hardening Time For Average Use	Anti-Freeze
1 quarts	17 quarts	$4\frac{1}{2}$ gals.	12 hours	28"
$1\frac{1}{2}$ quarts	$10\frac{1}{2}$ quarts	$4\frac{1}{2}$ gals.	8 hours	22"
2 quarts	16 quarts	$4\frac{1}{2}$ gals.	4 hours	16"
$3\frac{1}{2}$ quarts	$14\frac{1}{2}$ quarts	$4\frac{1}{2}$ gals.	2 hours	
9 quarts	9 quarts	$4\frac{1}{2}$ gals.	30 minutes	

* The approximate periods shown, after which the finished concrete will be ready for average use, is the result of experience from placing concrete at summer temperature of around 70 degrees Fahrenheit. Appreciable variations from this temperature, of course, have a corresponding effect on the hardening period.

Notes: To insure best results with the use of INSURO the table of water-cement ratio should be closely adhered to, inasmuch as any surplus water tends to slow the set and detract from high early strength.

engineering service

Engineering service is available at all times to assist in the solution of construction or maintenance problems involving INSURO.

Distributed by:

Insuro Specifications

water repellent concrete

new work—All poured concrete foundations below grade shall be made water repellent by using in the gauging water not less than 1 quart of INSURO to each bag of Portland cement. Water ratio shall not be over 4 gallons of water, including INSURO in each bag of cement. For large batch mass the INSURO may be added directly to the mixer but only after the required amount of water has been added and allowed to thoroughly wet the mix.

old foundation walls—(filling cracks)

Cut out all cracks in concrete, where seepage occurs, to the depth of $\frac{1}{2}$ inch and $\frac{1}{4}$ inch in width making a square cut not V shaped. Brush crack with grout of one part INSURO and eight parts water with sufficient Portland cement to make a paste of paint consistency. Before grout has set, fill the crack with a mortar consisting of one part Portland cement, two parts (by volume) of clean, sharp plasterers sand gauged with one part INSURO and eight parts water. Use only enough gauging liquid to give the mortar a good plastic consistency. Thoroughly compact mortar into crack to completely fill it. Strike off surplus mortar and trowel surface to smooth hard finish.

filling cracks against free running water (hot caulking)

Where free running water comes through the crack, follow the above procedure in preparing the crack and grouting. Filling mortar shall be mixed only in a quantity which can be held as a ball in the hand on account of rapidity of set. Mix one part of INSURO to three parts of Portland cement to the consistency of putty. This mix will generate a noticeable amount of heat. At this point the hot ball mix shall be worked into the crack and held in place either with the hand or trowel until it has hardened, which should be of the hardness of stone in a few minutes. For long or large cracks apply one hot ball at a time, working from the top down, roughening the edge of each patch before applying the next one.

plastic coats over porous concrete walls or concrete blocks

For retarding dampness, concrete walls shall be clean and free from oil, grease, paint or plaster. Wash old

surface with a solution of one part muriatic acid to three parts of water. After five minutes wash down wall thoroughly with clean water. The finish coat shall be applied while the wall is still damp.

All cracks shall be cut out and grouted as described under Spec. No. 3. While the walls are still damp apply a grout coat with a white wash brush. Grout shall consist of one part INSURO and eight parts of water to form a paste of paint consistency. Entire wall shall then be coated with $\frac{3}{4}$ to 1 inch thick Portland cement mortar of one part Portland cement to two parts clean sharp sand. Gauging solution shall be made up of one part INSURO to seventeen parts of water using not more than 4 $\frac{1}{2}$ gals. per bag of cement.

Note: Above mix will set in 12 hours. If quicker setting is required use same for recommended mix.

Mortar shall be applied in two coats and finished coat troweled smooth with steel trowel.

concrete floor topping over old concrete floors

Note: Follow same procedure for washing, cutting and filling cracks as on walls.

Floor topping shall be same mix as wall coat mortar except substitute concrete sand (grade 0 to $\frac{1}{2}$ "") for plasterers sand. Use mix of much drier consistency than for walls. Screed topping so that finished floor shall not be less than one inch above old floor at any point. Compact by tamping and screed to plane surface. After screeds are removed compact by wood float. When all surface water has disappeared, trowel to smooth dense surface with steel trowel.

new concrete floors

New concrete floor shall not be less than five inches thick with 1-2-3 or 4 mix gravel or stone concrete. The gauging liquid shall be a solution of 1 part of INSURO to 17 parts water (for quicker setting solution see table, page 3) using a dry mix. After concrete is placed it shall be tamped, screeded to proper thickness, wood floated and when all surface water has disappeared shall be troweled to a smooth hard surface with steel trowel.

special conditions

For the placing of concrete for roadways, under water, in sea walls and salt water and other special conditions, our engineers will be glad to make recommendations for the proper use of INSURO.

Printed in U.S.A.

A FEW USERS OF INSURO

State of Connecticut
City of Cranston, R. I.
City of New Haven, Conn.

City of Newport, R. I.
City of Boston, Mass.
City of Augusta, Maine

City of New London, Conn.
City of Providence, R. I.
City of Bangor, Maine

State of Maine
City of Springfield, Mass.
State of Rhode Island

Insuro Chemical Co., Inc.

Home Office and Factory: Box 249, West Upton, Massachusetts, U. S. A.

A. I. A.
File 38

INSURO

Registered United States and Canada

emulsion

liquid chemical cement intensifier

INSURO, an integral, multi-purpose liquid chemical emulsion for use in Portland cement concrete and mortars.

INSURO is a liquid chemical compound, the ingredients of which, in chemical combination with Portland cement, accelerates and more completely hydrates the cement particles, producing a stronger and more dense concrete. INSURO is added as part of the gauging water.

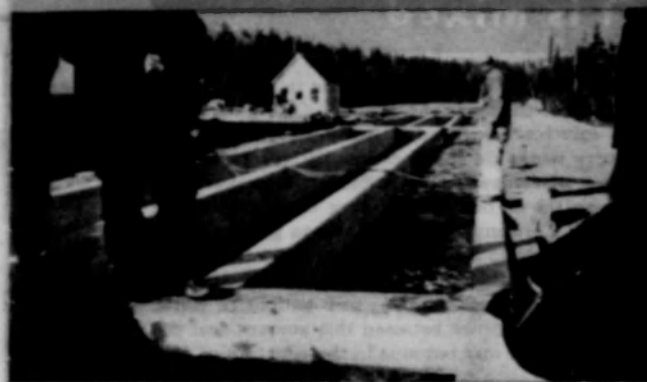
Results over a period of years, have proved that the use of INSURO in Portland cement concrete gives the concrete definite and valuable properties which it would not otherwise possess. These properties are described later. INSURO is designed to react only with Portland cement and therefore the so called "natural", "masonry" or "alumina" cement should not be used with this material. It can be used in mass concrete, cement coats, Portland cement mortar and especially in reinforced concrete as it does not attack the steel reinforcing at any time.



Bathing Pavilion, City of Newport, R. I. Insuro Used in all Concrete Construction.



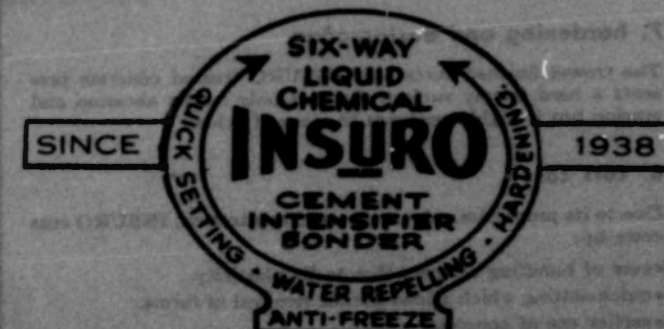
Detail of Entrance to Parking Area, Bathing Pavilion, City of Newport, R. I.



Concrete Fishways, State of Maine Inland Fisheries Project, Dead River, Me.



Heavy Duty Concrete Highway, 10-inch base Construction, New Haven, Conn.



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